

Met Lys Ser Ile Leu Asp Gly Leu Ala Asp Thr Thr Phe Arg Thr Ile  
1 5 10 15

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| Thr | Thr | Asp | Leu | Leu | Gly | Ser | Pro | Phe | Gln | Glu | Lys | Met | Thr | Ala | Gly |  |  |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |  |  |
| Asp | Asn | Pro | Gln | Leu | Val | Pro | Ala | Asp | Gln | Val | Asn | Ile | Thr | Glu | Phe |  |  |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |  |  |
| Tyr | Asn | Lys | Ser | Leu | Ser | Ser | Phe | Lys | Glu | Asn | Glu | Glu | Asn | Ile | Gln |  |  |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |  |  |
| Cys | Gly | Glu | Asn | Phe | Met | Asp | Ile | Glu | Cys | Phe | Met | Val | Leu | Asn | Pro |  |  |  |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |  |  |
| Ser | Gln | Gln | Leu | Ala | Ile | Ala | Val | Leu | Ser | Leu | Thr | Leu | Gly | Thr | Phe |  |  |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |  |  |
| Thr | Val | Leu | Glu | Asn | Leu | Leu | Val | Leu | Cys | Val | Ile | Leu | His | Ser | Arg |  |  |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |  |  |
| Ser | Leu | Arg | Cys | Arg | Pro | Ser | Tyr | His | Phe | Ile | Gly | Ser | Leu | Ala | Val |  |  |  |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |  |  |
| Ala | Asp | Leu | Leu | Gly | Ser | Val | Ile | Phe | Val | Tyr | Ser | Phe | Ile | Asp | Phe |  |  |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |  |  |
| His | Val | Phe | His | Arg | Lys | Asp | Ser | Arg | Asn | Val | Phe | Leu | Phe | Lys | Leu |  |  |  |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |  |
| Gly | Gly | Val | Thr | Ala | Ser | Phe | Thr | Ala | Ser | Val | Gly | Ser | Leu | Phe | Leu |  |  |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |  |
| Thr | Ala | Ile | Asp | Arg | Tyr | Ile | Ser | Ile | His | Arg | Pro | Leu | Ala | Tyr | Lys |  |  |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |  |  |
| Arg | Ile | Val | Thr | Arg | Pro | Lys | Ala | Val | Val | Ala | Phe | Cys | Leu | Met | Trp |  |  |  |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |  |  |
| Thr | Ile | Ala | Ile | Val | Ile | Ala | Val | Leu | Pro | Leu | Leu | Gly | Trp | Asn | Cys |  |  |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |  |
| Glu | Lys | Leu | Gln | Ser | Val | Cys | Ser | Asp | Ile | Phe | Pro | His | Ile | Asp | Glu |  |  |  |
|     | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |  |
| Thr | Tyr | Leu | Met | Phe | Trp | Ile | Gly | Val | Thr | Ser | Val | Leu | Leu | Leu | Phe |  |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |  |
| Ile | Val | Tyr | Ala | Tyr | Met | Tyr | Ile | Leu | Trp | Lys | Ala | His | Ser | His | Ala |  |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |  |
| Val | Arg | Met | Ile | Gln | Arg | Gly | Thr | Gln | Lys | Ser | Ile | Ile | Ile | His | Thr |  |  |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |  |  |
| Ser | Glu | Asp | Gly | Lys | Val | Gln | Val | Thr | Arg | Pro | Asp | Gln | Ala | Arg | Met |  |  |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |  |  |
| Asp | Ile | Arg | Leu | Ala | Lys | Thr | Leu | Val | Leu | Ile | Leu | Val | Val | Leu | Ile |  |  |  |
|     | 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |  |
| Ile | Cys | Trp | Gly | Pro | Leu | Leu | Ala | Ile | Met | Val | Tyr | Asp | Val | Phe | Gly |  |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |  |

Lys Met Asn Lys Leu Ile Lys Thr Val Phe Ala Phe Cys Ser Met Leu  
                   340                                  345                                  350  
 Cys Leu Leu Asn Ser Thr Val Asn Pro Ile Ile Tyr Ala Leu Arg Ser  
                   355                                  360                                  365  
 Lys Asp Leu Arg His Ala Phe Arg Ser Met Phe Pro Ser Cys Glu Gly  
                   370                                  375                                  380  
 Thr Ala Gln Pro Leu Asp Asn Ser Met Gly Asp Ser Asp Cys Leu His  
                   385                                  390                                  395                                  400  
 Lys His Ala Asn Asn Ala Ala Ser Val His Arg Ala Ala Glu Ser Cys  
                                   405                                  410                                  415  
 Ile Lys Ser Thr Val Lys Ile Ala Lys Val Thr Met Ser Val Ser Thr  
                   420                                  425                                  430  
 Asp Thr Ser Ala Glu Ala Leu  
                   435

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&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

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<223> sequence of oligonucleotide used to delete polynucleotides  
encoding human CB1b receptor N-terminus

&lt;400&gt; 7

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40